PRINOTH signifies efficient work on difficult terrain under the harshest of conditions. If up to now, the PRINOTH snow groomer fleet has been associated primarily with outstanding slope preparation, a new application is now being added to the high performance snow groomers: the silage application. Every kind of silage work, slope greening, the construction of reservoirs, and the moving of wood chips as well as other heavy moving work are just a few examples of the optimal exploitation and year-round use of the used LH 500 and Lettwolf snow groomers.
Convincing Features

Ease of Climbing and Turning with the Safety Aspect

PRINOTH snow groomers were constructed for working on steep slopes. As a result of their ease in climbing and turning, they master challenging pushing work on difficult ground and can ascend tall, steep heaps of silage substantially easier and with greater safety against tipping than vehicles with wheels. The wide caterpillar tracks provide fast forward progress, while the broad blade makes it possible to apply thin layers.

Adjustable Suspension

The adjustable suspension makes an ideal combination possible of climbing ability and ease of turning, ensuring the perfect adaptation to all types of terrain. The single-wheel suspension with a hydraulic rocking function provides the optimal adaptation to the ground on every type of terrain. In this way, the silage can be piled up and compacted at the same time – two processing steps for which otherwise two special vehicles would be needed.

Use of Summer Tracks

The summer tracks guarantee problem-free forward progress everywhere. With a large track working surface and low pressure on the ground, the snow groomer moves forward effortlessly on shredded plant material and does not get stuck as easily as a wheel-driven vehicle. The vibrating effect, which is intensified even further by the summer tracks, achieves a high degree of traction and improves the compacting of the silage even further.

Central Seating and Control Position

The central seating position provides the driver with an outstanding panoramic view. As a result of the cabin’s large windows, the driver has a clear view of the blade. With the lever controls, each track can be controlled individually; the ideal conditions for pleasant, efficient work. Two high-performance headlights provide optimal working conditions even at night. For companions, there are two passenger seats: one on the left of the driver and one on the right.

Transport Width Less than Three Meters

With the optimized summer tracks, the width of the vehicle is reduced. With a reduced transport width of less than three meters, the transport problem solves itself. Thus, the used snow groomer can be transported without being disassembled, bringing with it a substantial savings in time and effort and providing more flexibility.
Diverse Applications

Reservoirs

The areas of application for PRINOTH snow groomers are many and diverse. The enormous pushing power and the high degree of climbing ability favour the use of high-performance giants for the distribution of heavy loads, such as gravel, with the building of large reservoirs. By means of the optimal distribution of weight and the wide tracks that are safe against tipping, steep hills of gravel can be climbed effortlessly and safely. Because of its low center of gravity, the vehicle is on the whole very stable, as a result of which very large angles can be managed with no problem.

Wood Chips

In addition to the building of reservoirs, the LH 500 and Leitwolf models are also perfectly suited for the moving of wood chips, for example in remote heating plants. The large blade and the extreme traction of the rubber-coated summer tracks support the thrust. Thus large loads can be pushed with little or no effort. The low pressure on the ground by the tracks prevents sinking into the heaps. This represents a major plus with respect to wheel-driven vehicles, which would have gotten stuck there long before.
Hydropneumatic Suspension

The LH 500 and the Leitwolf are provided both with a hydropneumatic suspension with electronic level regulation and an adjustable suspension. The single-wheel suspension with a hydraulic rocking function provides the optimal adaptation to the ground on every type of terrain. Thanks to the wide range of the suspension, the load is distributed equally over the entire surface of the track.

Use of Accessories

With the hydraulic quick-change fixture, accessories of any kind can be universally attached and put into use. The change of equipment can be quickly managed with both systems. The control of the accessories takes place through a variable displacement pump with proportional control which automatically sets the oil flow rate to zero if no hydraulic cylinder is activated.

Replacement Part Service

The replacement part warehouse and maintenance center in Telfs near Innsbruck, Austria, guarantees a reliable repair and replacement part service, even with used vehicles. Before the vehicles change owners, they are subjected to a comprehensive inspection, and any necessary repairs are carried out with PRINOTH original replacement parts.

Optimized Summer Tracks

With the rubber surface of the summer tracks that are available as an option, it is ensured that the vehicle can travel over any terrain, even on asphalt or gravel. Thus, with the modification, a transport width of less than three meters can be achieved which makes possible problem-free transport and the simple loading of the snow groomer.
FRONT EQUIPMENT HAULER
Mechanically locking quick-release device with 14 hydraulic circuits
Hydraulic floating position for the clearing blade

CAB
Soundproofed with composite fiber
Central driver’s seat and 2 passenger seats
Safety belts for driver and passengers

OPTIONS
Summer tracks
Hydraulic quick-release device
Three-point linkage Cat. II and III rear hydraulics
Additional ballast
Chassis and blade conversion for 3 m transport width
Inversion fan
Precleaning air filter
Air conditioning

LOAD AREA
Size 1,140 x 1,300 mm
Payload 1,000 kg

TECHNICAL DATA

LH 500 ENGINE
Type MAN D 2866 LE 102
Number of cylinders 6 in line
Total displacement 11,970 cm³
Bore/displacement 128/155 mm
ECE-ISO performance 264 kW/360 hp
Max. torque 1,540 N·m at 1,300 rpm
Fuel consumption 15-20 l/h
Tank capacity 200 l

LOAD AREA
Size 1,140 x 1,300 mm
Payload 1,000 kg

OPERATING SPECIFICATIONS
Turning radius Around its own axis
Gradeability 100%
Empty weight 7,000 kg
Operating weight with tracks and blade 8,100 kg
Max. permissible gross weight 10,340 kg
Vehicle width including summer tracks 3,120 mm
Vehicle width after conversion including summer tracks 2,980 mm
Vehicle width including winter tracks 4,330 mm

CLEARING BLADE
12-way clearing blade with threaded holes for tractor shovel and tow hook

CONTROLS
Drive Hydrostatic with digital electronics
Drive gears 1 (optionally 2)
Maximum speed 18 km/h

ELECTRICAL SYSTEM
Operating voltage 24 V
Alternator 120 A
Batteries 2 x 12 V – 155 Ah

REAR EQUIPMENT HAULER
Pivoting equipment hauler with mechanically locking quick-release device
10 hydraulic circuits, hydraulic tiller load reduction, electronic cutting angle display

FRONT EQUIPMENT HAULER
Mechanically locking quick-release device with 14 hydraulic circuits
Hydraulic floating position for the clearing blade

LIGHTING
2 high beam and low beam lights
2 headlights, front and rear
1 rotating light
Running lights
Turn indicators
Spotlight

ADJUSTABLE SUSPENSION
The adjustable suspension makes an ideal combination possible of climbing ability and ease of turning. By lifting or lowering the suspension, the track working surface can be reduced or increased. The reducing of the working surface provides higher working pressure which serves for the compacting of silage and makes turning easier, even on a difficult terrain. By increasing the track working surface, the climbing ability and the thrust are favored, which are then increased even more by means of the vehicle’s lower center of gravity. In that way, the vehicle achieves even more grip and can even climb large heaps with no problem.

CAR
Soundproofed with composite fiber
Central driver’s seat and 2 passenger seats
Safety belts for driver and passengers

OPTIONS
Summer tracks
Hydraulic quick-release device
Three-point linkage Cat. II and III rear hydraulics
Additional ballast
Chassis and blade conversion for 3 m transport width
Inversion fan
Precleaning air filter
Air conditioning

2 high beam and low beam lights
2 headlights, front and rear
1 rotating light
Running lights
Turn indicators
Spotlight

LH 500
Technical Data

LH 500
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